

Docket No.: K-0316

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
Dong Hi SIM :
Serial No. New U.S. Patent Application :
Filed: August 31, 2001 :
For: METHOD FOR PROCESSING SIGNAL IN COMMUNICATION SYSTEM
HAVING PLURALITY ANTENNAS

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

Prior to initial examination on the merits, please amend the above-identified application
as follows:

IN THE CLAIMS:

Please amend claims 11 and 15 as follows:

11. (Amended) A method as claimed in claim 8 [or 9], wherein the greatest proper value
 λ of $R_{yy} - \lambda R_{xx}$, which is a generalized Eigenvalue problem, can be calculated by

$$\lambda = \frac{\underline{w}^H R_{yy} \underline{w}}{\underline{w}^H R_{xx} \underline{w}} \text{ with respect to 'H', the Hermitian operator.}$$

15. (Amended) A method as claimed in claim 13 [or 14], wherein the greatest proper value λ of $R_{yy}\underline{w} - \lambda R_{xx}\underline{w}$, which is a generalized Eigenvalue problem, can be calculated by

$$\lambda = \frac{\underline{w}^H R_{yy} \underline{w}}{\underline{w}^H R_{xx} \underline{w}} \text{ with respect to 'H', the Hermitian operator.}$$

Clean Set of Amended Claims

11. (Amended) A method as claimed in claim 8, wherein the greatest proper value λ of $R_{yy\underline{w}} - \lambda R_{xx\underline{w}}$, which is a generalized Eigenvalue problem, can be calculated by

$$\lambda = \frac{\underline{w}^H R_{yy} \underline{w}}{\underline{w}^H R_{xx} \underline{w}} \text{ with respect to 'H', the Hermitian operator.}$$

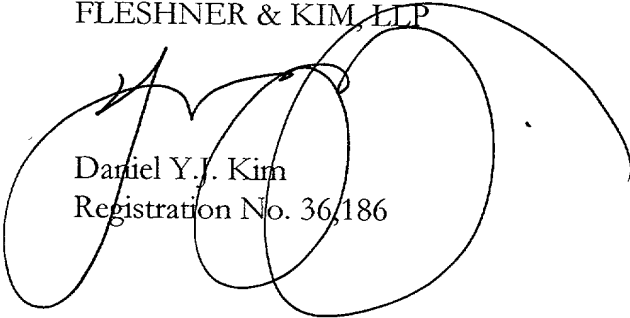
15. (Amended) A method as claimed in claim 13, wherein the greatest proper value λ of $R_{yy\underline{w}} - \lambda R_{xx\underline{w}}$, which is a generalized Eigenvalue problem, can be calculated by

$$\lambda = \frac{\underline{w}^H R_{yy} \underline{w}}{\underline{w}^H R_{xx} \underline{w}} \text{ with respect to 'H', the Hermitian operator.}$$

REMARKS

Claims 1-15 are pending. Claims 11 and 15 have been amended to eliminate the multiple dependency. Prompt examination and allowance in due course are respectfully solicited.

Respectfully submitted,
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Date: August 31, 2001